Continuous Processing Technology

Astro DecFilterDryer



- Filtration, washing and drying platforms
- Versatile use in pharma, chemical, agrochemical, and allied industries
- Available in modular Advanced Configurable Process Plant (ACPP) design
- Available for lab, pilot, and production scale operations
- From 100g/h to 4+ tons/day
- High-capacity automation
- Reduced process cycle times 10 to 15 minutes
- Increased yields
- LOD less than equivalent batch processing
- 24-hour unmanned operation
- ATEX - HAZLOC - cGMP

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Astro DecFilterDryer

Our platforms are designed to take you seamlessly from laboratory development to full-scale production, combining reliability, efficiency, and ease of use.
Built on proven Nutsche Filtration principles, these systems offer a reliable platform for modern pharmaceutical and chemical production. Their advanced washing capabilities reduce solvent use, while faster filtration and drying shorten cycle times and boost productivity. Inverted discharge ensures complete product recovery with no heel, and the design enables rapid product changeovers.

Simple, user-friendly construction keeps maintenance easy. SIP versions are available for pilot and production scales, and automated WIP at laboratory scale streamlines cleaning and validation. Integrated upstream and downstream transfer with safe packaging ensures high containment, product integrity, and operator protection throughout the process

Design

· 316L, C22 and metal-free executions
· ACPP design available
· Various sizes available

Key Advantages

· **Operational Flexibility**
· **Aseptic Process with pilot/full scale**
· **Regulatory Compliance:** cGMP/ATEX/HAZLOC
· **Seamless Connection** to up-/downstream processes including batch
· **Hygienic Design:** WIP/SIP

Applications

· Pharmaceutical (API/Generics)
· Chemical
· Specialty Chemicals
· Agrochemical



Lab Scale Systems

- Ideal for small to medium scale API production; <50g to 100g/h of dry material
- Automated WIP - GMP CIP version available
- No requirement for ATEX room (airflow and solvent monitoring)
- Available in Advanced Configurable Process Plant (ACPP) and skid-mounted design



Pilot/Production Scale Systems

- Ideal for process development or small-scale production
- From <250g to 500g/h of dry material
- Automated WIP & SIP versions for aseptic applications
- Non-ATEX for fume hood operation
- Available in Advanced Configurable Process Plant (ACPP) and skid-mounted design



Production Scale Systems

- Ideal for medium to large scale production
- Up to 100 kg/h of dry material
- Automated WIP & SIP versions for aseptic systems
- ATEX / HAZLOC
- Available as complete turnkey systems including nitrogen re-circulation and solvent recovery

Reaction-Extraction-Evaporation-Distillation-Crystallization-Filtration-Drying-Secondary Processing-Primary/Secondary Packaging

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